

|    | Type | L # | Hits | Search Text                                  | DBs                |
|----|------|-----|------|--|--------------------|
| 1  | BRS  | L4  | 276  | 257/772.CCLS.                                | USPAT;<br>US-PGPUB |
| 2  | BRS  | L7  | 1105 | 257/737.CCLS.                                | USPAT;<br>US-PGPUB |
| 3  | BRS  | L10 | 20   | L7 and lead-free                             | USPAT;<br>US-PGPUB |
| 4  | BRS  | L13 | 233  | (solder adj alloy) and lead-free             | USPAT;<br>US-PGPUB |
| 5  | BRS  | L16 | 82   | L13 and silver and nickel and copper         | USPAT;<br>US-PGPUB |
| 6  | BRS  | L22 | 454  | lead-free adj solder                         | USPAT;<br>US-PGPUB |
| 7  | BRS  | L25 | 40   | L22 and (tin adj based)                      | USPAT;<br>US-PGPUB |
| 8  | BRS  | L34 | 914  | L7 and (bump or ball) and solder             | USPAT;<br>US-PGPUB |
| 9  | BRS  | L37 | 3    | L34 and (tin adj based)                      | USPAT;<br>US-PGPUB |
| 10 | BRS  | L40 | 311  | UBM and (bump or ball) and solder            | USPAT;<br>US-PGPUB |
| 11 | BRS  | L43 | 11   | L40 and lead-free                            | USPAT;<br>US-PGPUB |
| 12 | BRS  | L46 | 31   | L40 and tin and silver and nickel and copper | USPAT;<br>US-PGPUB |
| 13 | BRS  | L49 | 9    | L46 and intermetallic                        | USPAT;<br>US-PGPUB |
| 14 | BRS  | L28 | 17   | L25 and (bump or ball)                       | USPAT;<br>US-PGPUB |
| 15 | BRS  | L31 | 27   | L19 and (bump or ball)                       | USPAT;<br>US-PGPUB |
| 16 | BRS  | L52 | 1    | "5634268".PN.                                | USPAT              |
| 17 | BRS  | L53 | 1    | "5393489".PN.                                | USPAT              |
| 18 | BRS  | L54 | 1    | "5376584".PN.                                | USPAT              |
| 19 | BRS  | L55 | 1    | "4806309".PN.                                | USPAT              |

|    | Type | L # | Hits | Search Text   | DBs                |
|----|------|-----|------|---|--------------------|
| 20 | BRS  | L19 | 43   | L16 and intermetallic                                     | USPAT;<br>US-PGPUB |
| 21 | BRS  | L56 | 8    | L40 and (tin adj based)                                   | USPAT;<br>US-PGPUB |
| 22 | BRS  | L59 | 1    | "5885891".PN.   | USPAT              |
| 23 | BRS  | L60 | 1    | "5767010".PN.   | USPAT              |
| 24 | BRS  | L61 | 1    | "5137845".PN.   | USPAT              |
| 25 | BRS  | L62 | 1    | "5819406".PN.   | USPAT              |
| 26 | BRS  | L63 | 1    | "5704116".PN.   | USPAT              |
| 27 | BRS  | L64 | 1    | "5477933".PN.   | USPAT              |
| 28 | BRS  | L65 | 230  | BLM and (bump or ball) and solder                         | USPAT;<br>US-PGPUB |
| 29 | BRS  | L71 | 1    | L65 and tin-silver  | USPAT;<br>US-PGPUB |
| 30 | BRS  | L68 | 9    | L65 and lead-free   | USPAT;<br>US-PGPUB |
| 31 | BRS  | L74 | 1    | "5949654".PN.   | USPAT              |
| 32 | BRS  | L75 | 1    | "5793117".PN.   | USPAT              |
| 33 | BRS  | L76 | 1    | "5285016".PN.   | USPAT              |
| 34 | BRS  | L77 | 1    | "5793117".PN.   | USPAT              |
| 35 | BRS  | L78 | 23   | tin-silver and alloy and intermetallic and (ball or bump) | USPAT;<br>US-PGPUB |
| 36 | BRS  | L81 | 1    | "6413851".PN.   | USPAT              |
| 37 | BRS  | L82 | 1    | "6175160".PN.   | USPAT              |
| 38 | BRS  | L83 | 1    | "6169329".PN.   | USPAT              |

|    | Type | L #      | Hits | Search Text                       | DBs                |
|----|------|----------|------|-----------------------------------|--------------------|
| 39 | BRS  | L8<br>4  | 1    | "5990547".PN.                     | USPAT              |
| 40 | BRS  | L8<br>5  | 1    | "5894410".PN.                     | USPAT              |
| 41 | BRS  | L8<br>6  | 1    | "5655703".PN.                     | USPAT              |
| 42 | BRS  | L8<br>7  | 1    | "5634268".PN.                     | USPAT              |
| 43 | BRS  | L8<br>8  | 1    | "5540379".PN.                     | USPAT              |
| 44 | BRS  | L8<br>9  | 1    | "5361966".PN.                     | USPAT              |
| 45 | BRS  | L9<br>0  | 1    | "3621564".PN.                     | USPAT              |
| 46 | BRS  | L9<br>2  | 1    | 5937320.pn.                       | USPAT              |
| 47 | BRS  | L9<br>3  | 618  | 257/762.CCLS.                     | USPAT;<br>US-PGPUB |
| 48 | BRS  | L9<br>6  | 407  | 257/766.CCLS.                     | USPAT;<br>US-PGPUB |
| 49 | BRS  | L9<br>9  | 75   | L93 and (bump or ball) and solder | USPAT;<br>US-PGPUB |
| 50 | BRS  | L1<br>02 | 75   | L96 and (bump or ball) and solder | USPAT;<br>US-PGPUB |
| 51 | BRS  | L1<br>05 | 0    | L99 and tin-silver                | USPAT;<br>US-PGPUB |
| 52 | BRS  | L1<br>08 | 1    | L102 and tin-silver               | USPAT;<br>US-PGPUB |
| 53 | BRS  | L1<br>11 | 21   | L99 and tin and silver            | USPAT;<br>US-PGPUB |
| 54 | BRS  | L1<br>14 | 1    | "5928404".PN.                     | USPAT              |
| 55 | BRS  | L1<br>15 | 1    | "5878943".PN.                     | USPAT              |
| 56 | BRS  | L1<br>16 | 1    | "5805422".PN.                     | USPAT              |
| 57 | BRS  | L1<br>17 | 1    | "5789271".PN.                     | USPAT              |
| 58 | BRS  | L1<br>18 | 1    | "5726501".PN.                     | USPAT              |

|    | Type | L #      | Hits | Search Text             | DBs                  |
|----|------|----------|------|-------------------------|----------------------|
| 59 | BRS  | L1<br>19 | 1    | "5503286".PN.           | USPAT                |
| 60 | BRS  | L1<br>20 | 1    | "5418186".PN.           | USPAT                |
| 61 | BRS  | L1<br>21 | 1    | "5208186".PN.           | USPAT                |
| 62 | BRS  | L1<br>22 | 1    | "5208186".PN.           | USPAT                |
| 63 | BRS  | L1<br>23 | 1    | "5136364".PN.           | USPAT                |
| 64 | BRS  | L1<br>24 | 1    | "5130779".PN.           | USPAT                |
| 65 | BRS  | L1<br>25 | 1    | "5048744".PN.           | USPAT                |
| 66 | BRS  | L1<br>26 | 1    | "5027188".PN.           | USPAT                |
| 67 | BRS  | L1<br>27 | 1    | "4505029".PN.           | USPAT                |
| 68 | BRS  | L1<br>28 | 1    | "4386116".PN.           | USPAT                |
| 69 | BRS  | L1<br>29 | 1    | "4360142".PN.           | USPAT                |
| 70 | BRS  | L1<br>30 | 1    | "4283118".PN.           | USPAT                |
| 71 | BRS  | L1<br>31 | 18   | L102 and tin and silver | USPAT;<br>US-PGPUB   |
| 72 | BRS  | L1<br>34 | 17   | L131 and copper         | USPAT;<br>US-PGPUB   |
| 73 | BRS  | L1<br>37 | 84   | 257/772.CCLS.           | EPO; JPO;<br>IBM_TDB |
| 74 | BRS  | L1<br>41 | 129  | 257/762.CCLS.           | EPO; JPO;<br>IBM_TDB |
| 75 | BRS  | L1<br>45 | 172  | 257/766.CCLS.           | EPO; JPO;<br>IBM_TDB |
| 76 | BRS  | L1<br>49 | 231  | 257/737.CCLS.           | EPO; JPO;<br>IBM_TDB |
| 77 | BRS  | L1<br>53 | 31   | 257/781.CCLS.           | EPO; JPO;<br>IBM_TDB |
| 78 | BRS  | L1<br>57 | 84   | 257/772.CCLS.           | EPO; JPO;<br>IBM_TDB |